

ABSTRACT OF THE DISCLOSURE

This invention provides a resin molding device, resin molding method and resin molded product capable of guiding a sink to an optional position to perform a precise molding.

5 A resin molding metal mold 1 comprises a gate 3 formed in the central part of a cavity 2, a stepped part 4 increasing the opening diameter of the cavity 2 in the circumferential direction orthogonal to the flowing direction of a molten resin 10 introduced into the cavity 2 from the gate 3, and a fine outside air inlet part 5 circumferentially formed on the outer part from the stepped part 4. The

10 outside air inlet part 5 is formed of a porous material and allowed to communicate with the outside of the resin molding metal mold 1 through a communicating passage 6. Accordingly, the molten resin 10 injected into the cavity 2 from the gate 3 is cooled with the outside air introduced from the outside air inlet part 5 formed in the area except a transfer part after the reduction in resin pressure by

15 the stepped part 4 to generate a sink, forming a non-transfer part, so that the transfer property of the transfer part can be improved to enhance the shape precision of the molded product.